



# REVISED SPECIAL AIRWORTHINESS INFORMATION BULLETIN

Aircraft Certification Service  
Washington, DC

U.S. Department  
of Transportation

**Federal Aviation  
Administration**

NE-06-12R1  
January 13, 2006

<http://www.faa.gov/aircraft/safety/alerts/SAIB>

*This is information only. Recommendations aren't mandatory.*

## Introduction

This *Revised* Special Airworthiness Information Bulletin (SAIB) revises the applicable engine models and clarifies and attaches Rolls Royce's "R1" service letter. All other information remains the same.

This SAIB advises you, registered owners, operators, and certificated repair facilities of **all aircraft equipped with Rolls-Royce Corporation (RRC) engine models 250-C47B and 250-C47M** of the new release of a "Reversionary Governor" configuration Electronic Control Unit (ECU). The new configuration is an improvement for the Model 250 series IV Full Authority Digital Electronic Control (FADEC) single engine ECU. The new configuration ECU will be provided at no cost to all operators who are registered with RRC prior to December 31, 2005. **These engines are installed on, but not limited to, Bell Helicopter Textron 407, and MD Helicopters Inc. 600N helicopters.**

## Background

Risk analysis and safety management programs indicate the addition of a "Reversionary Governor" to the EMC-35A ECU will reduce the frequency of reversions to manual mode resulting in reduced safety risks.

RRC has modified the existing 250 ECU to add a reversionary governor to the Primary control. This new configuration is currently in the final stages of FAA certification.

RRC has published Commercial Service Letter CSL-6113R1 (attached) for the 250-C47 Series to introduce the Reversionary configuration to the field and to provide directions for registration.

## Recommendations

We strongly recommend that you register prior to the deadline to obtain the improved "Reversionary Governor" configuration ECU at no cost and install it as soon as practicable.

## For Further Information Contact

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# Rolls-Royce

## P U B L I C A T I O N      T R A N S M I T T A L

December 20, 2005

TO:                Recipients of 250-C30 and -C47 Commercial Service Letters

SUBJECT:    New Configuration Electronic Control Unit (ECU)

This letter transmits Revision 1 to the subject commercial service letters:

<u>Model</u>	<u>Letter Number</u>
250-C30 Series	CSL 3208
250-C47 Series	CSL 6113

This is a complete revision. Replace the original issue with this Revision 1.

Revision 1 changes ECU P/N to ECU S/N.

If you have complied with the previous issue of this letter, no additional work is required.

The following list includes the original issue date and all revisions to this letter:

Original issue	September 21, 2005
Revision 1	December 20, 2005

CUSTOMER SUPPORT  
ROLLS-ROYCE

**NEW CONFIGURATION ELECTRONIC CONTROL UNIT (ECU)**

Rolls-Royce Corporation is introducing a product improvement for the Model Series IV FADEC single engine control system with the addition of a Reversionary Governor to the EMC-35A Electronic Control Unit (ECU) to reduce the frequency of reversions to manual mode. The Reversionary Governor allows the ECU to continue to provide automatic fuel flow control with a reduced set of sensors if the ECU primary governor cannot function.

This new configuration ECU will be provided at no cost to the operator for all operators who register prior to December 31, 2005. Also, these replacement ECUs will be provided with a 1,000 hour or 24 calendar month warranty when installed. For those operators that do not register prior to December 31, 2005, the estimated cost of the ECU is approximately \$5,500.00 USD. It is estimated that there should be approximately 800 registered owners of 250-C47 Series engines. Please fill out the information below and return this sheet to Rolls-Royce at the following number:

Fax: 1 (317) 230-3381

If sending via e-mail, please put "rev gov" in the subject line.

e-mail: Model250CustSupp@Rolls-Royce.com

Owner / Operator Name	
Aircraft S/N & Reg #	
Aircraft Base	
Maintenance Point of Contact	
POC Phone #	
POC Fax #	
POC E-Mail address	
Shipping Address	
Engine S/N	
ECU S/N	
ECU P/N	
Engine TT (ECU)	

The exchange program is scheduled to start November 2005. At time of availability of units a CEB will also be published.

**NOTE:** It is imperative that each ECU is registered in order to alleviate further regulatory action from the FAA and the NTSB.

September 21, 2005  
Revision 1  
December 20, 2005

CUSTOMER SUPPORT  
ROLLS-ROYCE

250-C30 Series  
250-C47 Series

CSL -3208  
CSL -6113